

GENERAL INSTRUCTIONS:

- i. The question paper comprises two sections A and B. You are to attempt both the sections. Questions numbered 1 to 7 in section A are Multiple choice questions, you are to choose one, most appropriate answer from the choices given. Each question carries one mark.
- ii. Questions numbered 8 to 10 in section B carry one mark each.
- iii. Questions numbered 11 to 17 carry two marks each.
- iv. Questions numbered 18 to 24 carry three marks each.
- v. Questions numbered 25 to 27 carry five marks each.

SECTION A

MULTIPLE CHOICE QUESTIONS

1. Which of the following is not a product by processing coal
a) coke b) coal gas c) coal tar d) cola
2. Which of the following is not an inflammable substance
a) LPG b) Alcohol c) Petrol d) sand
3. The human embryo attaches and develops in the
a) uterus b) oviduct c) ovary d) placenta
4. The time taken to complete one oscillation by an oscillating body is known as its
a) Frequency b) Amplitude c) Time period d) vibration
5. An object that cannot be charged easily by friction/rubbing is
a) plastic comb b) balloon c) pen refill d) copper rod
6. Which is not a characteristic of image formed by a plane mirror
a) same size as object b) same distance from mirror as the object from mirror c) real image d) shows lateral inversion
7. A shooting star is a celestial body known as
a) Meteor b) comet c) asteroid d) planets

SECTION B

8. What are Oviparous organisms. Give an example of one.(1)
9. Name two foodstuff you would include in your diet to prevent night blindness.(1)
10. Why do the voices of men, women and children generally differ?(1)

SECTION C

11. State any two applications of artificial satellites?(2)

12. With ray diagram show the first law of reflection of a plane mirror.(2)
13. Explain why a charged body loses its charge when we touch it with our hands?(2)
14. State any two reasons why endemic species are in danger of existence in their habitats?(2)
15. How does a CO₂ type fire extinguisher help in controlling fire? Explain (2)
16. What precautions should be taken before storage of grains?(2)
17. Why should we be careful while burning coal excessively (2)

SECTION D

18. Which is a better fuel ,diesel or LPG? Why? ii) Calculate the calorific value of a fuel if it produces 90,000KJ of heat ,when 2 kg of the fuel is completely burnt.(3)
19. Name any three constituents of petroleum and one use of each.(3)
20. Draw a labelled diagram of the Human eye and label i)retina ii)Lens iii)optic nerve iv)Iris.(3)
21. Draw the stars forming the *Orion* and ii) *Ursamajor* constellations. Show in the diagram how these constellations can be used to locate the *Sirius* and Pole star respectively.(3)
22. Illustrate how a lightning conductor protects a building from lightning strikes.Give any two precautions you would take to protect yourself from lightning if you are outdoors?(3)
23. Give the names of three different types of areas for conserving wild life in India. Explain each briefly(3)
24. Define i)Red data book ii)Endangered species iii) Extinct species (3)

SECTION E

25. Name two common sources of Noise pollution.State any two health problems caused due to Noise pollution.State three measures that can be taken by the Public to prevent Noise pollution.(5)
26. With a diagram show the life cycle of Frog and explain the phenomenon of Metamorphosis with respect to this life cycle. How does it differ from the life cycle of Hen .(5)
27. Mention three different ways to improve the fertility of soil for growing crops without using fertilisers. ii) Why is manure better than chemical fertilizers for the soil?(5)
